1. Create a Web Service Endpoint Interface

package hi.rpc.ws;

import javax.jws.WebMethod;

import javax.jws.WebService;

import javax.jws.soap.SOAPBinding;

import javax.jws.soap.SOAPBinding.*Style*;

//Service Endpoint Interface

@WebService

@SOAPBinding(style = *Style*.*RPC*)

public interface **Calcule**{

@WebMethod String **Calcule**(String name);

}

## 2. Create a Web Service Endpoint Implementation

package hi.rpc.ws;

import javax.jws.WebService;

//Service Implementation

@WebService(endpointInterface = "hi.rpc.ws.Calcule")

public class **CalculeImpl** implements Calcule{

int[] piece = { 50, 20, 10, 5, 2, 1};

@Override

public String **Calcule**(int some) {

//int s = Integer.parseInt(some);

String result="";

int[] reslt = new int[piece.length];

for (int i = 0; i < piece.length; i++) {

if (some >= piece[i]) {

reslt[i] = some / piece[i];

some = some % piece[i];

}

}

for (int i = 0; i < reslt.length; i++) {

if (reslt[i] != 0) {

result+=(" " + reslt[i] + " de piece " + piece[i] + "**\n**");

}

}

return result;

}

}

## 3. Create a Endpoint Publisher

package hi.rpc.ws;

import javax.xml.ws.Endpoint;

//Endpoint publisher

public class **CalculePublisher**{

public static void ***main***(String[] args) {

Endpoint.*publish*("http://localhost:9999/ws/calcule", new CalculeImpl());

}

}

service by accessing the generated WSDL (Web Service Definition Language) document via this URL <http://localhost:9999/ws/calcule?wsdl>

<message name="Calcule">

<part name="arg0" type="xsd:int"/>

</message>

<message name="CalculeResponse">

<part name="return" type="xsd:string"/>

</message>

…  
<service name="CalculeImplService">

<port name="CalculeImplPort" binding="tns:CalculeImplPortBinding">

<soap:address location="http://localhost:9999/ws/calcule"/>

</port>

</service>

## Web Service Clients

import java.net.URL;

import javax.xml.namespace.QName;

import javax.xml.ws.Service;

public class **Client**{

public static void ***main***(String[] args) throws Exception {

URL url = new URL("http://localhost:9999/ws/calcule?wsdl");

QName qname = new QName("http://ws.rpc.hi/", "CalculeImplService");

Service service = Service.*create*(url, qname);

Calcule calcule = service.getPort(Calcule.class);

System.*out*.println(calcule.Calcule(90));

}

}